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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------------|---------------|----------------------|-------------------------|------------------|
| 10/004,919 | 12/03/2001 | Naoto Hiramatsu | 2204-011501 9828 | |
| 75 | 90 04/07/2003 | | | |
| Russell D. Ork | | EXAMINER | | |
| 700 Koppers Bu 436 Seventh Av | | YEE, DEBORAH | | |
| Pittsburgh, PA | 15219-1818 | ART UNIT PAPER NUMBI | | |
| | | 1742 | | |
| | | | DATE MAILED: 04/07/2003 | 5 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Applicati n N | 0 | Applicant(s) | a- | | | |
|--|---|----------------------|---------------------------------------|--|-------|--|--|--|
| Offic Action Summary | | | • | | -// | | | |
| | | 10/004,919 | , , , , , , , , , , , , , , , , , , , | Naoto Hiramatsu | | | | |
| | One Action Summary | Examiner | | Art Unit | | | | |
| TI MANUNIA DATE AND | | Deborah Yee | cor also t with the | 1742 | drose | | | |
| The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply | | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status | | | | | | | | |
| 1) 🗌 | Responsive to communication(s) filed on | · • | | | | | | |
| 2a) <u></u> □ | This action is FINAL . 2b)⊠ Thi | is action is non | -final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | | |
| Disposition of Claims | | | | | | | | |
| 4)⊠ Claim(s) <u>5-8</u> is/are pending in the application. | | | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | | |
| 5) 🗌 C | 5) Claim(s) is/are allowed. | | | | | | | |
| · | claim(s) <u>5-8</u> is/are rejected. | | | | | | | |
| · | claim(s) is/are objected to. | | | | | | | |
| - | claim(s) are subject to restriction and/or | r election requi | rement. | | | | | |
| Applicatio | • | | | | | | | |
| · | ne specification is objected to by the Examine ne drawing(s) filed on is/are: a) accep | | ected to by the Eva | miner | | | | |
| | | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. | | | | | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | | | | |
| 12)☐ The oath or declaration is objected to by the Examiner. | | | | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | | | |
| 13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | | | |
| a)⊠ All b)□ Some * c)□ None of: | | | | | | | | |
| 1 | 1. Certified copies of the priority documents have been received. | | | | | | | |
| 2 | 2. Certified copies of the priority documents have been received in Application No | | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | | | | | | | | |
| a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | | | | |
| Attachment(s) | | | | | | | | |
| 1) Notice | of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s) | 4) [5) [6) [| Notice of Informal I | / (PTO-413) Paper No(Patent Application (PT0 | | | | |



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DETAILED ACTION

Correction To Last Office Action

In response to applicant's telephone inquiry of March 21, 2003 regarding the last Office action, the following corrective action is taken.

THE PERIOD FOR RESPONSE OF 3 MONTHS SET IN SAID OFFICE ACTION IS RESTARTED TO BEGIN WITH THE DATE OFTHIS LETTER.

A complete copy of the last office action is provided.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoshino et al (US Patent 4,849,166) or Barbosa et al (US Patent 5,429,688).

Hoshino in Tables 1 to 4 of columns 7 to 10, and Barbosa in Tables 1 to 3 of columns 4 to 5, each discloses martensitic-austenitic stainless steel alloy examples having compositions, Md(N) values in a range of 0-125 and a Vickers hardness of 400 or more which meet claims 5 and 6. Even though the prior art does not teach reverted austenite, such would not be a patentable distinction. Note that in a product-by-process claim, determination of patentability is based on the product itself and not process limitations. Applicant will have the burden to show that the prior art product containing

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austenite does not necessarily or inherently possess the characteristics of the claimed product which contains austenite produced by reversion. See MPEP 706.03e.

Claims 5 to 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Igawa et al (US Patent 5,171,384).

Igawa in Tables 1 and 2 of columns 5 to 8 disclose specific stainless steel examples which meet the claimed composition and when calculated satisfy the Md(N) value within the range of 0-125. Moreover, line 40, column 3 discloses stainless strip has been cold rolled in which strain-induced martensite has been formed by cold rolling, and claim 1 and Table 2 of column 7 discloses annealing the cold rolled steel strip at a temperature range of 700 to 750C (within applicant's claimed temperature range of 500 to 700C) to induce reversion by which austenitic phase is generated from the strain-induced martensite. Although the prior art does not teach a Vicker hardness of 400 or more as recited by the claim, such hardenability would be expected in the prior art steel since composition and process limitations are closely met, and in absence of proof to the contrary.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 703-308-1102. The examiner can normally be reached on Monday-Friday from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-873-9311 for After Final communications.



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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

dy March 21, 2003

> DEBORAH YEE RIMARY EXAMINER